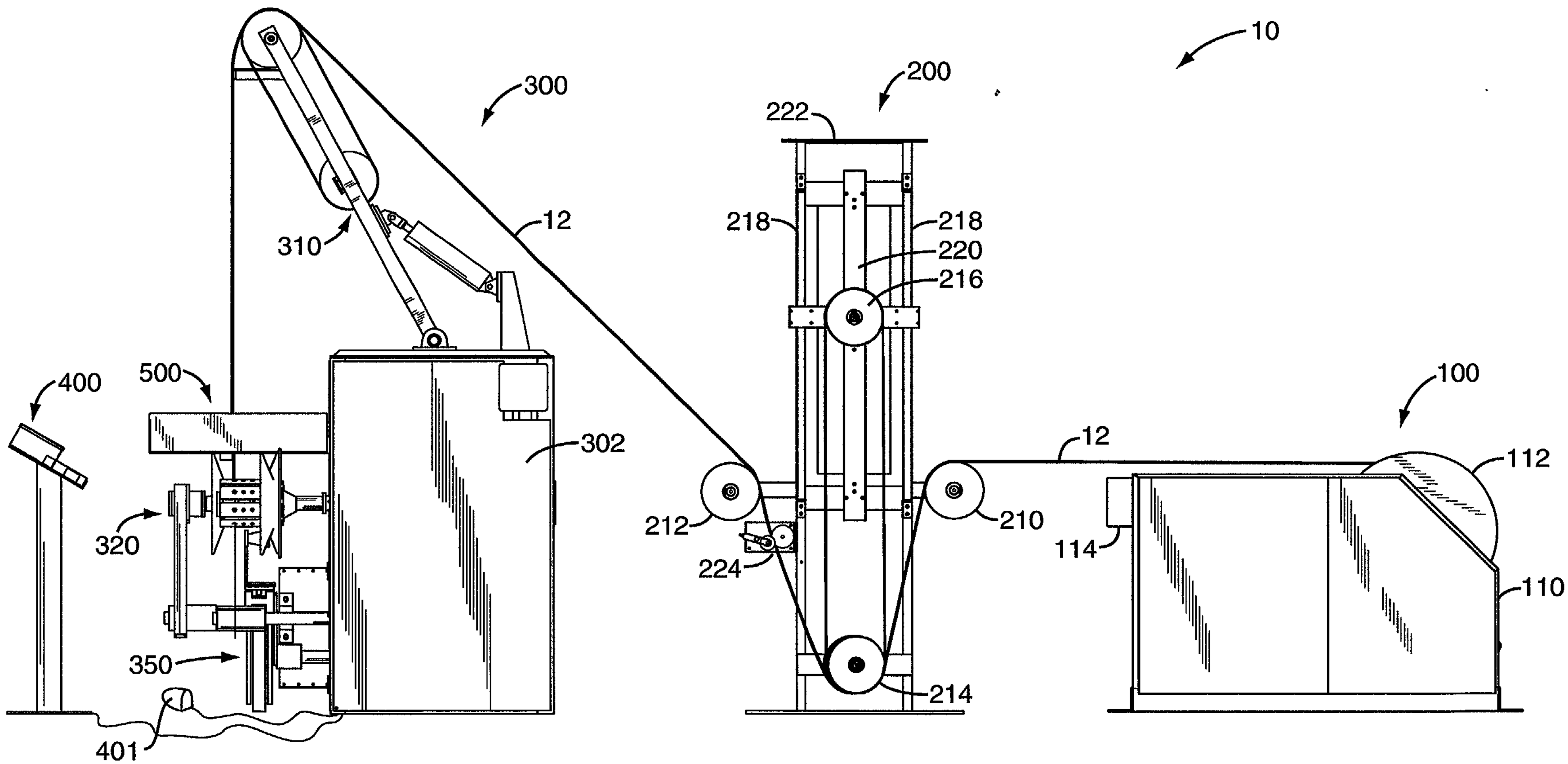
10
300
200
222
12
218
218
220
310
216
400
500
100
302
12
112
212
210
320
114
224
110
350
214
401

FIG. 1

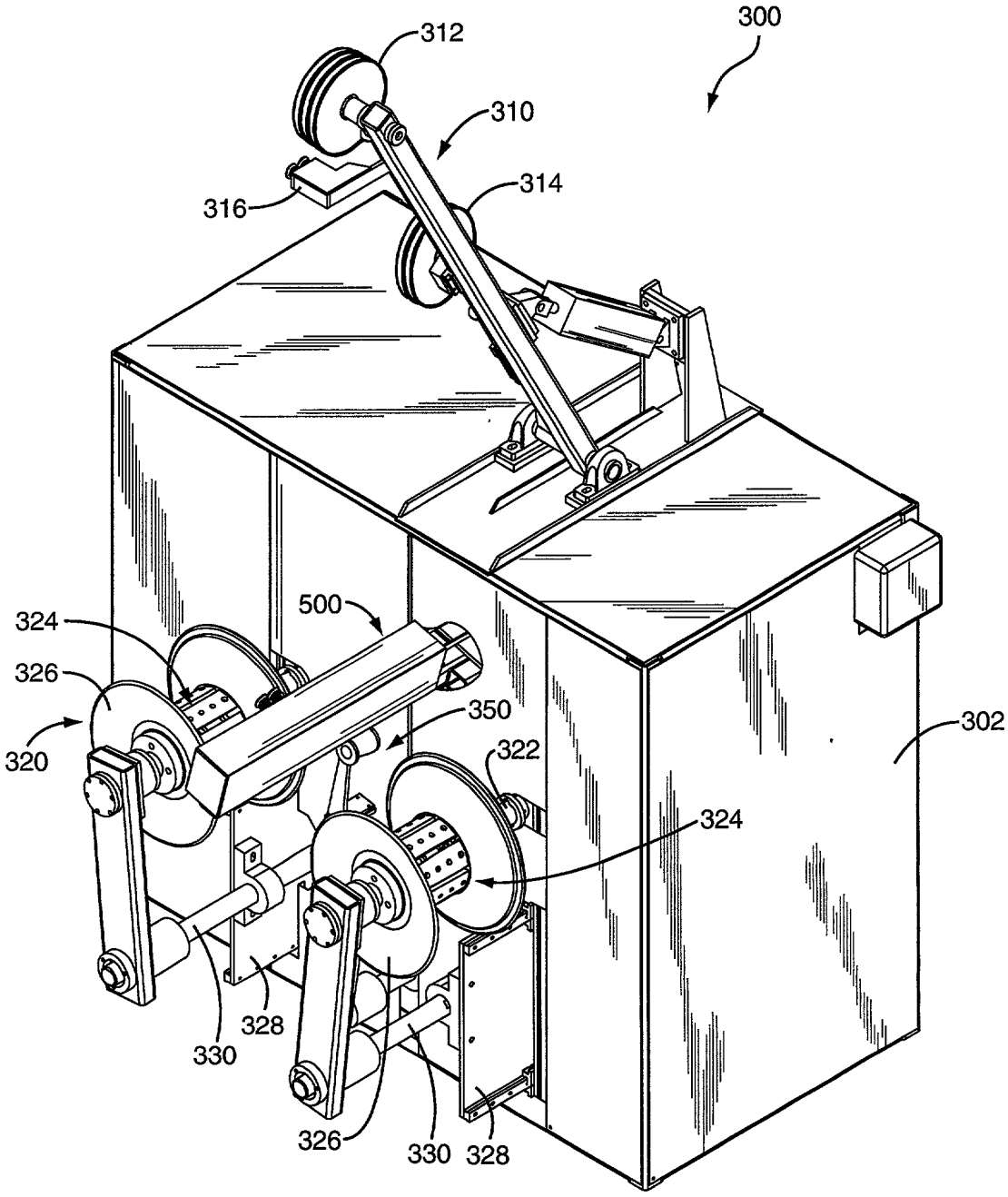

FIG. 2

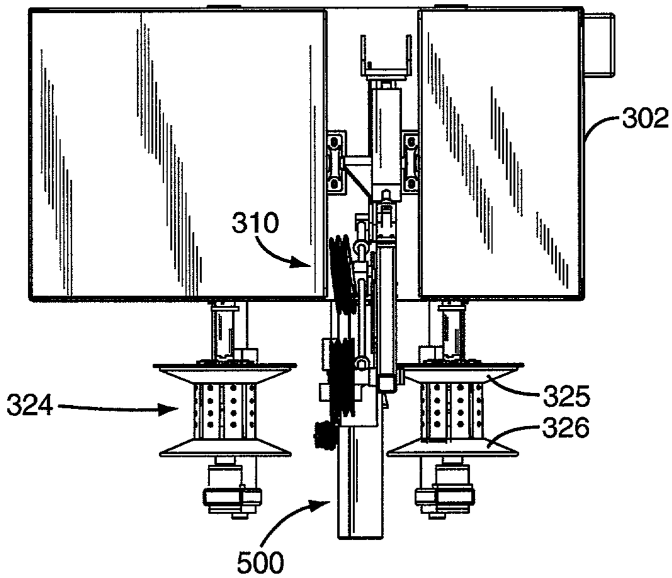
302
310
324
325
326
500

FIG. 3A

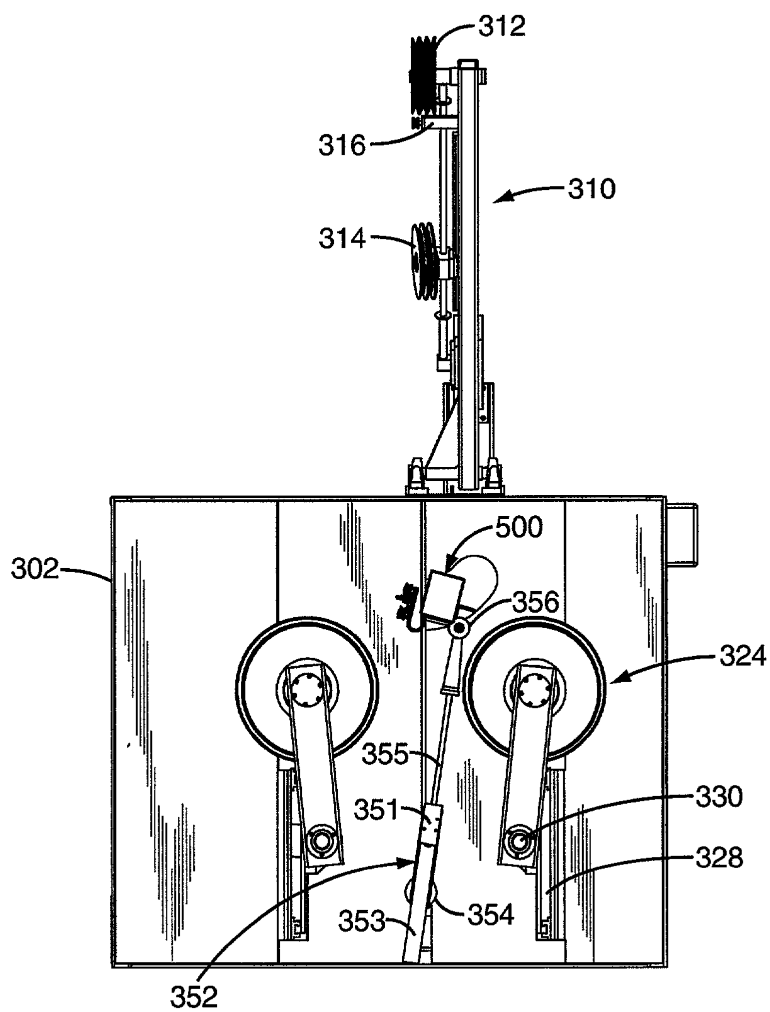
312
316
310
314
302
500
356
324
355
351
330
328
353
354
352

FIG. 3B

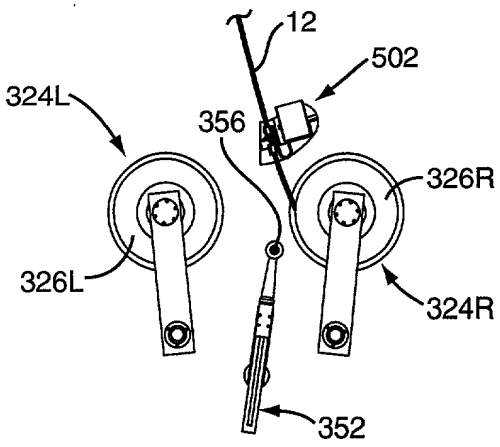

FIG. 4A

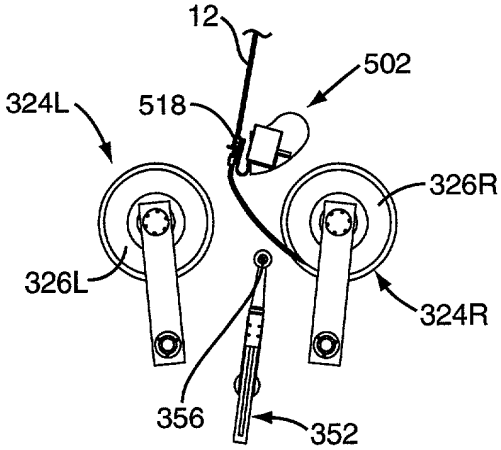

FIG. 4B

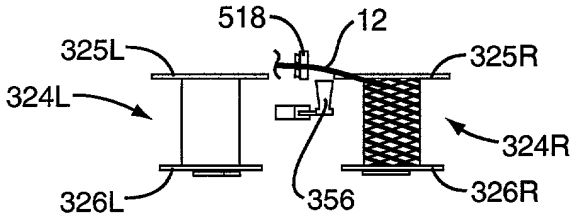

FIG. 4C

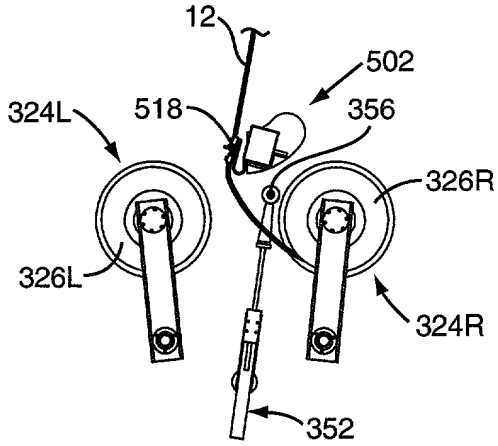

FIG. 4D

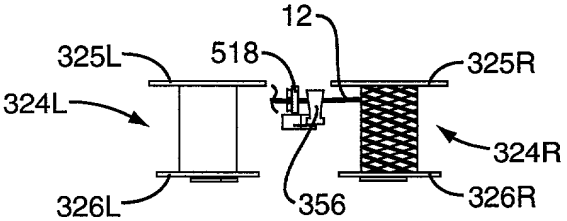

FIG. 4E

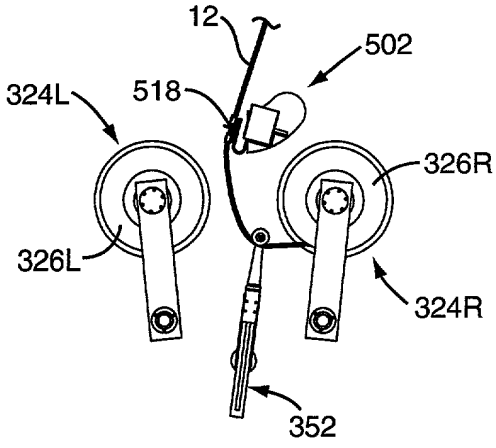

FIG. 4F

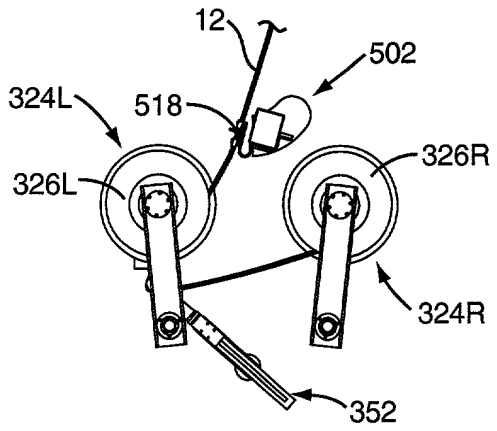

FIG. 4G

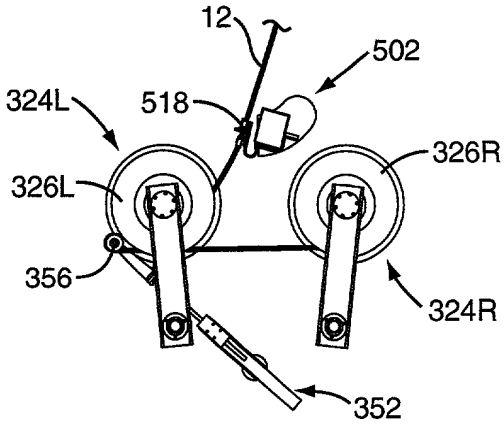

FIG. 4H

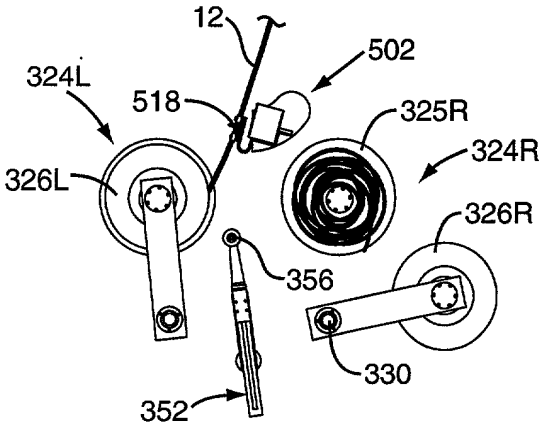

FIG. 4I

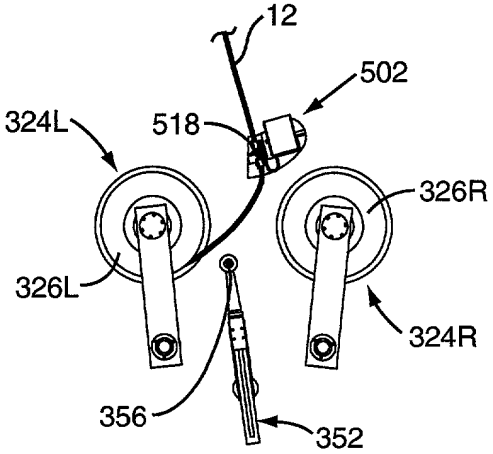

FIG. 4J

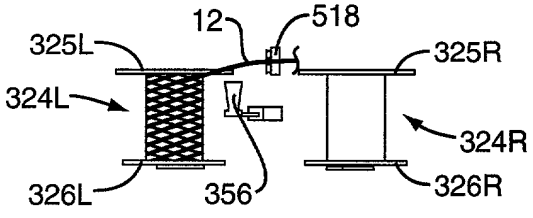

FIG. 4K

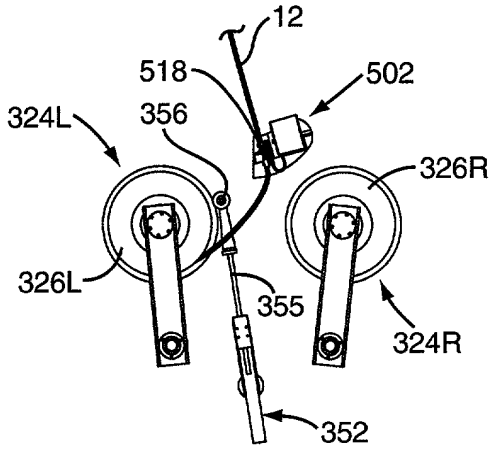

FIG. 4L

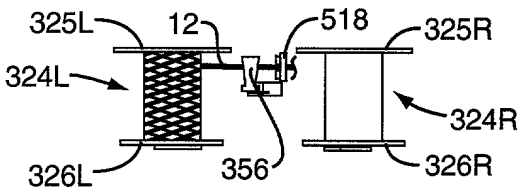

FIG. 4M

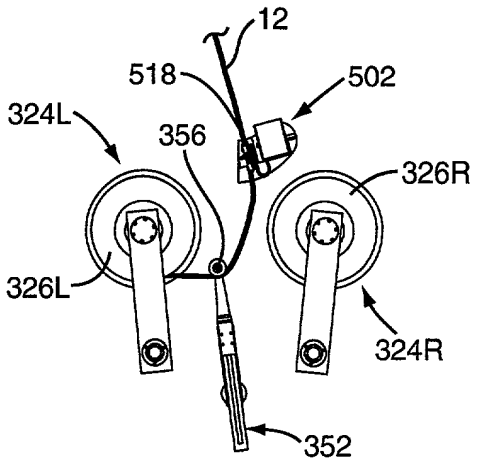

FIG. 4N

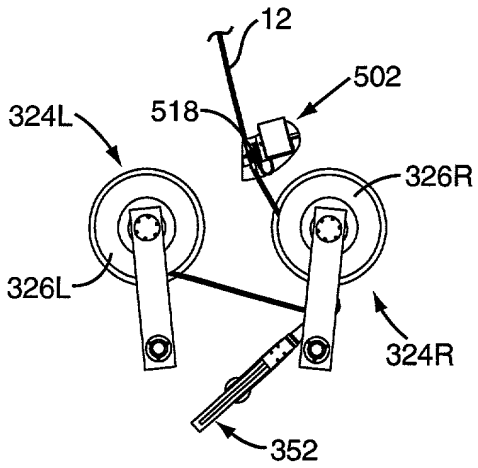

FIG. 4O

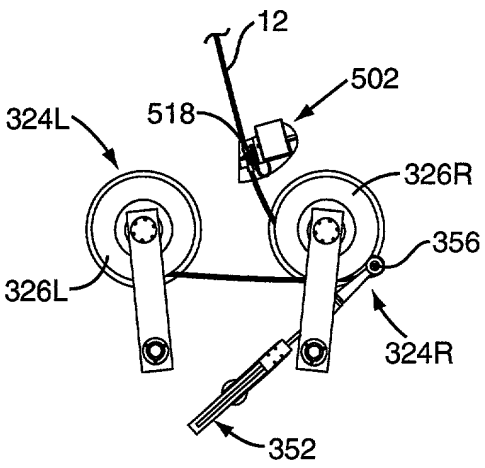

FIG. 4P

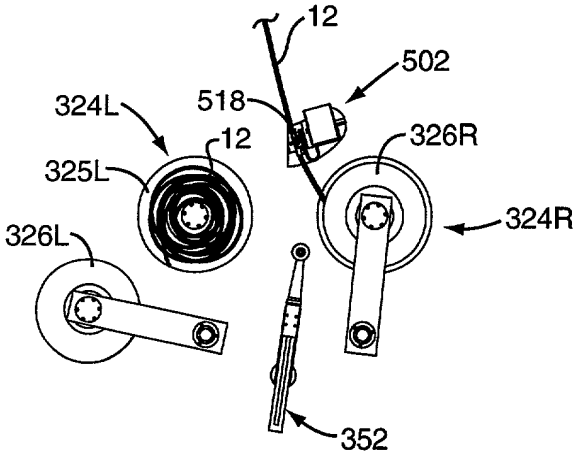

FIG. 4Q

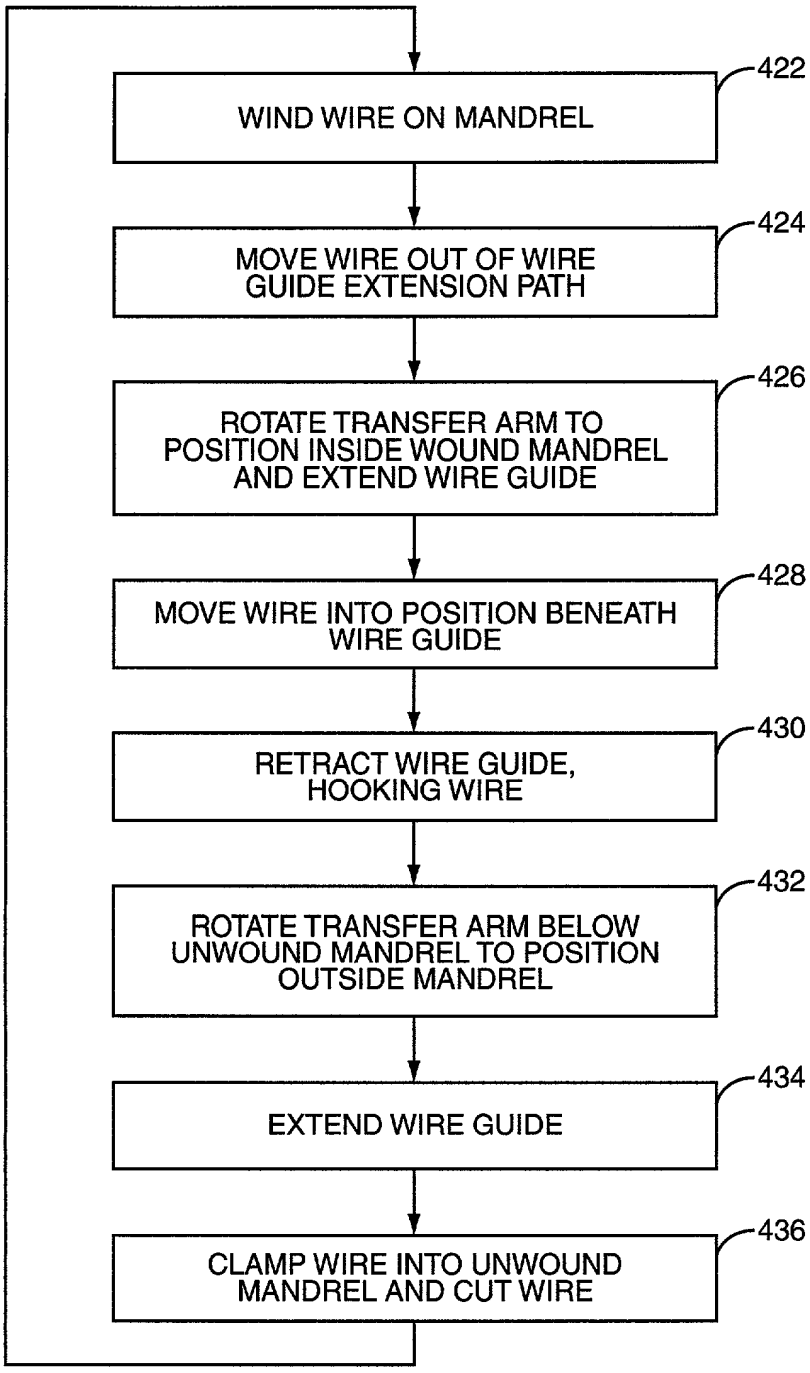
WIND WIRE ON MANDREL
422
MOVE WIRE OUT OF WIRE GUIDE EXTENSION PATH
424
ROTATE TRANSFER ARM TO POSITION INSIDE WOUND MANDREL AND EXTEND WIRE GUIDE
426
MOVE WIRE INTO POSITION BENEATH WIRE GUIDE
428
RETRACT WIRE GUIDE, HOOKING WIRE
430
ROTATE TRANSFER ARM BELOW UNWOUND MANDREL TO POSITION OUTSIDE MANDREL
432
EXTEND WIRE GUIDE
434
CLAMP WIRE INTO UNWOUND MANDREL AND CUT WIRE
436

FIG. 5

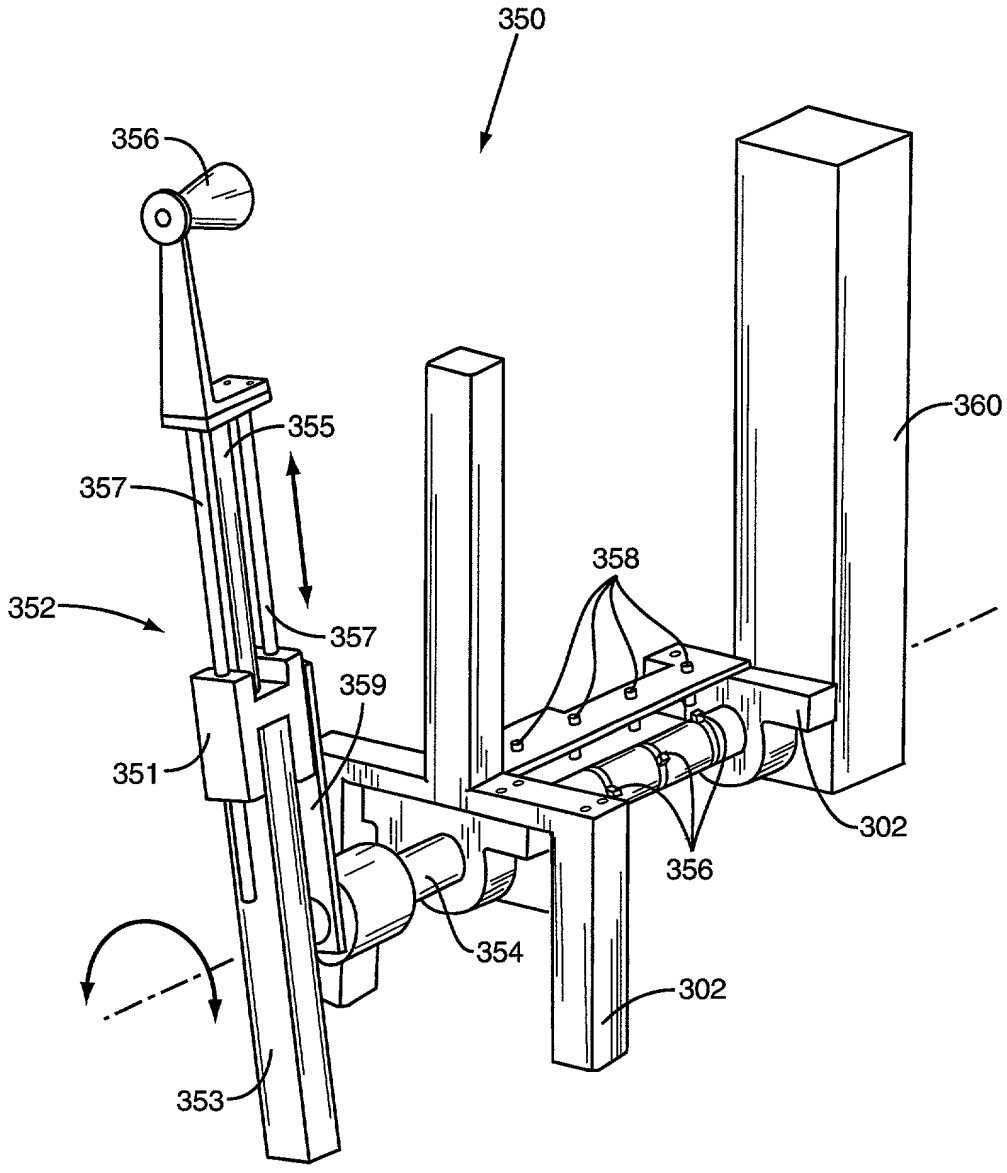

FIG. 6

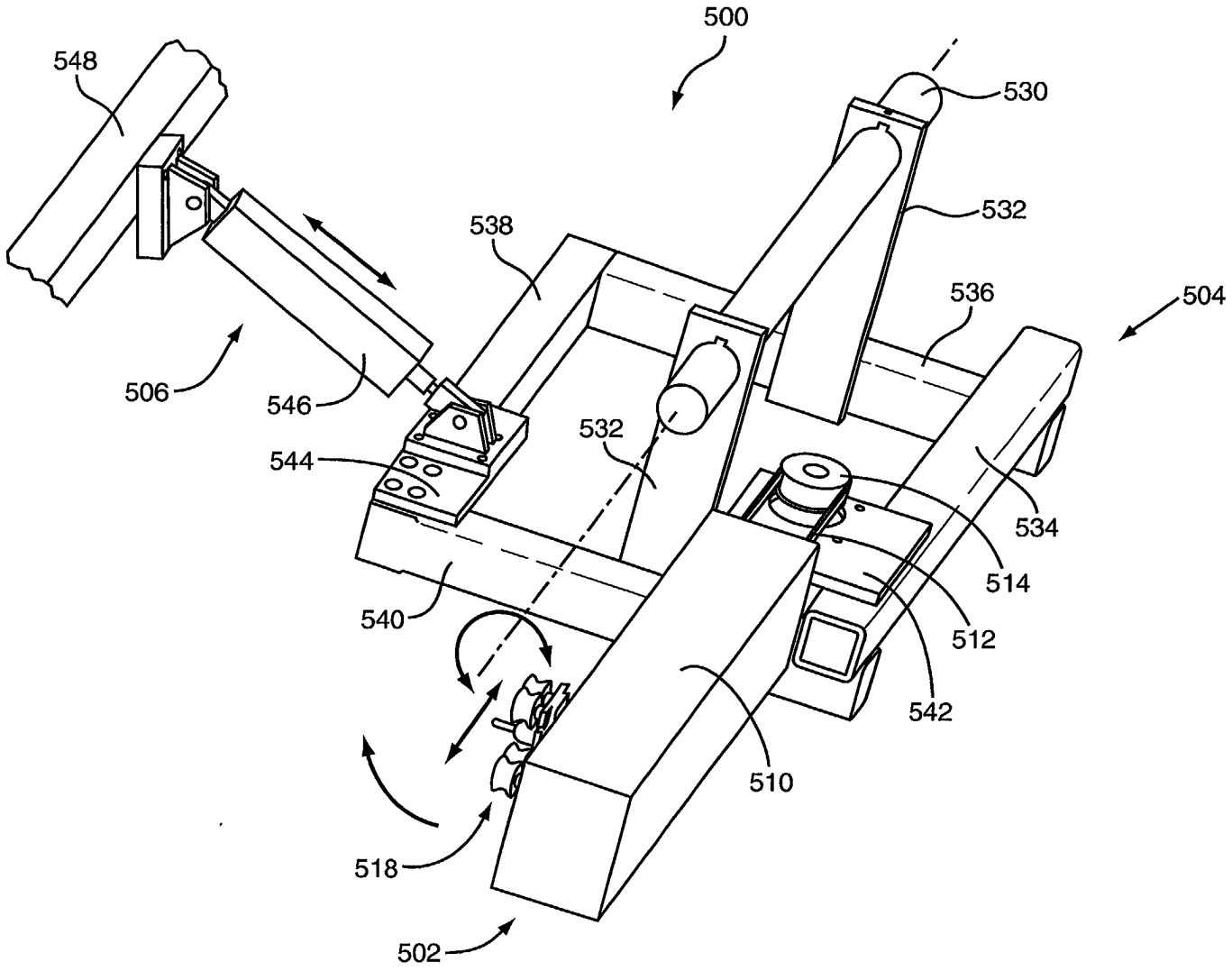

FIG. 7

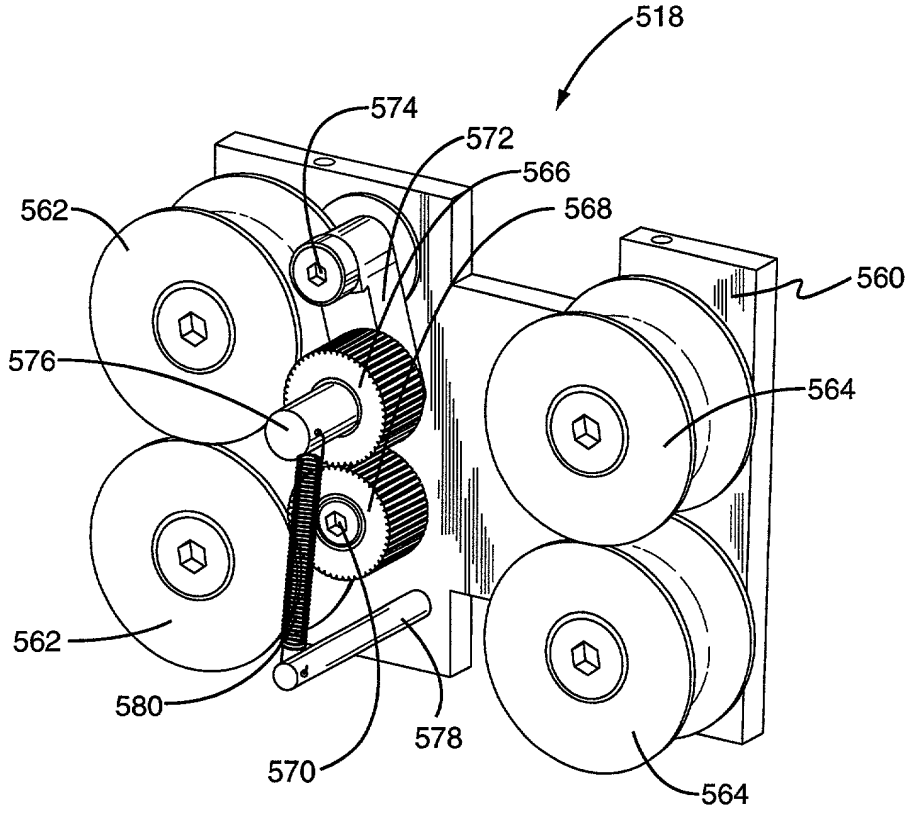

FIG. 8A

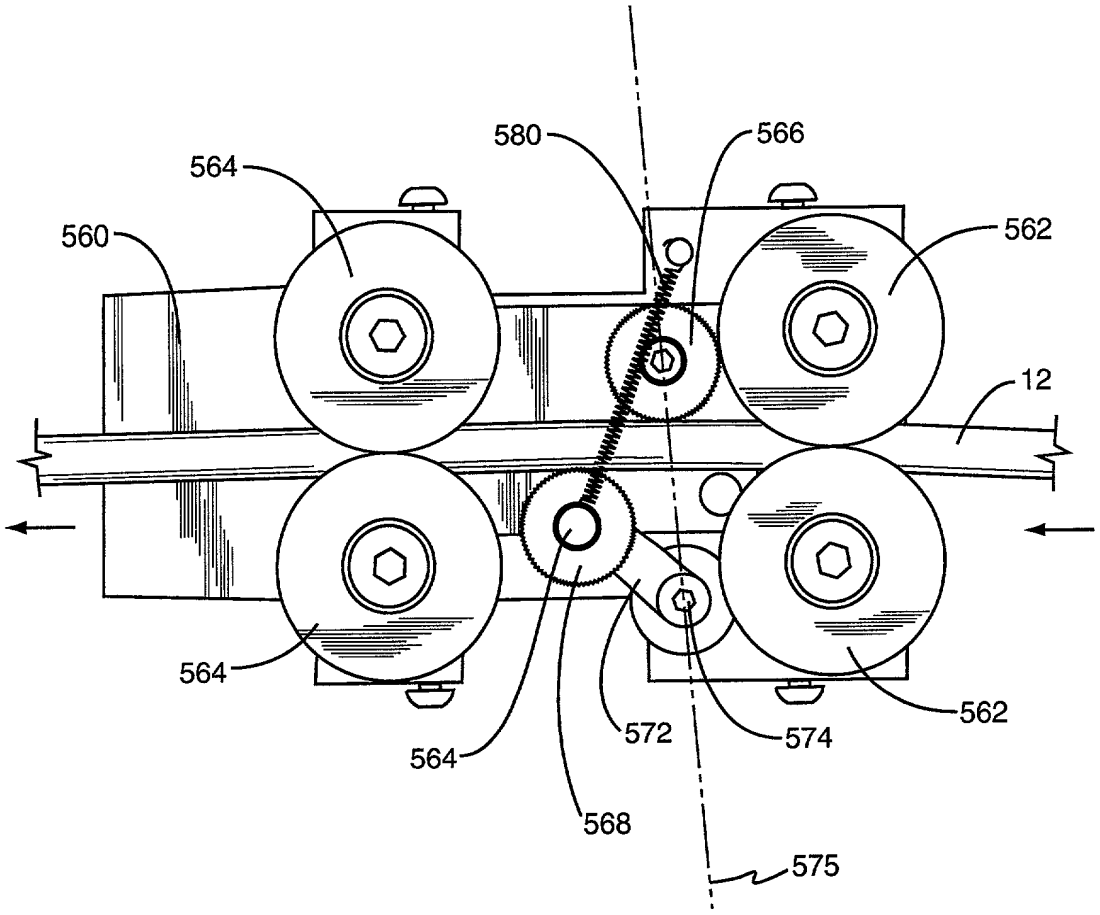

FIG. 8B

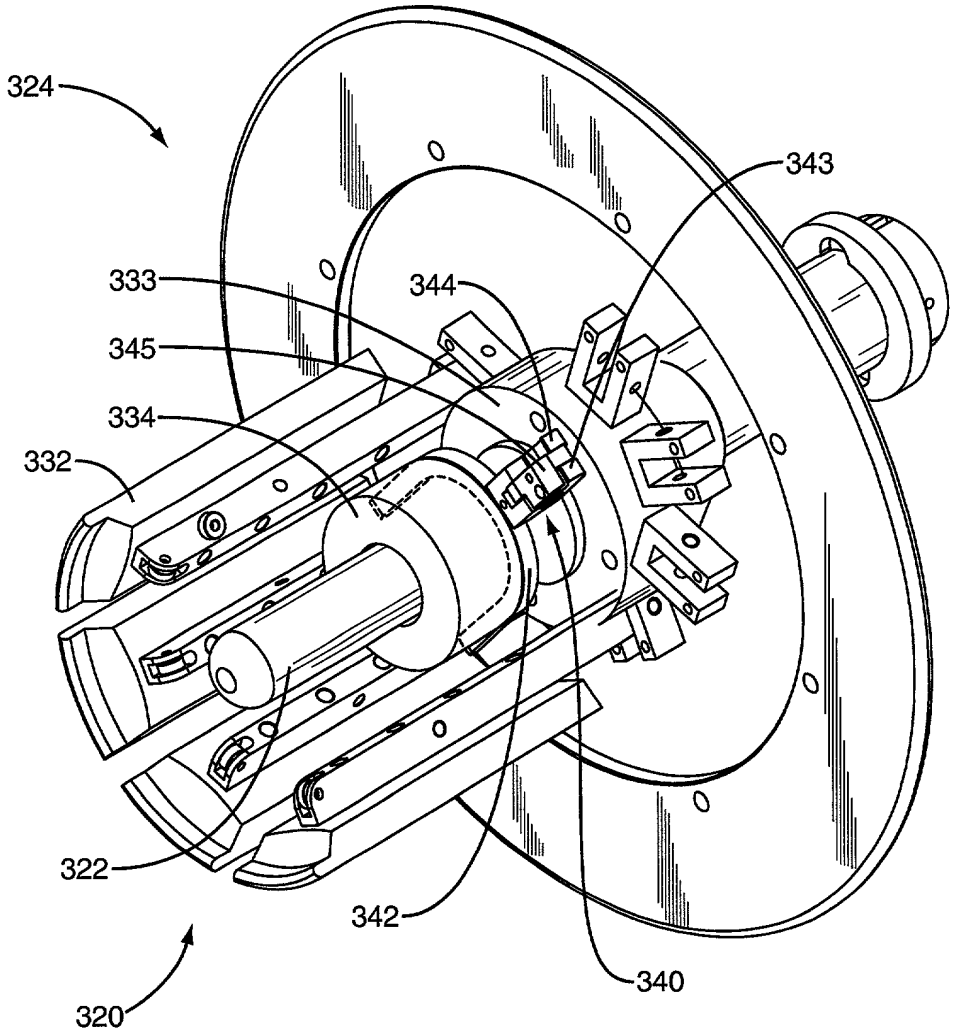

FIG. 9

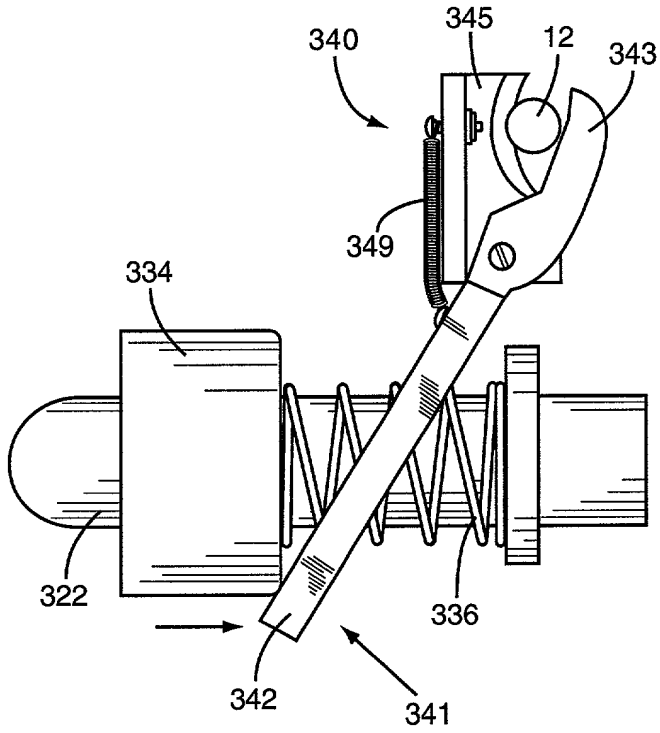

FIG. 10A

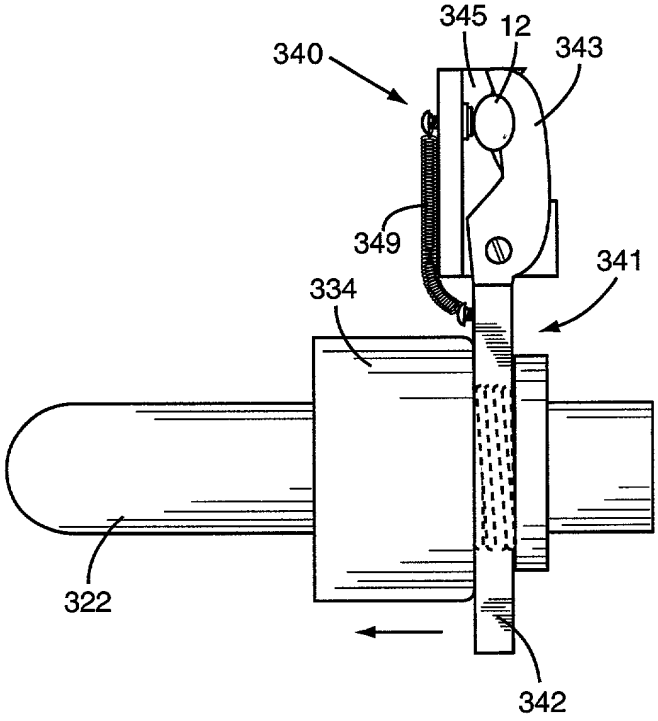

FIG. 10B

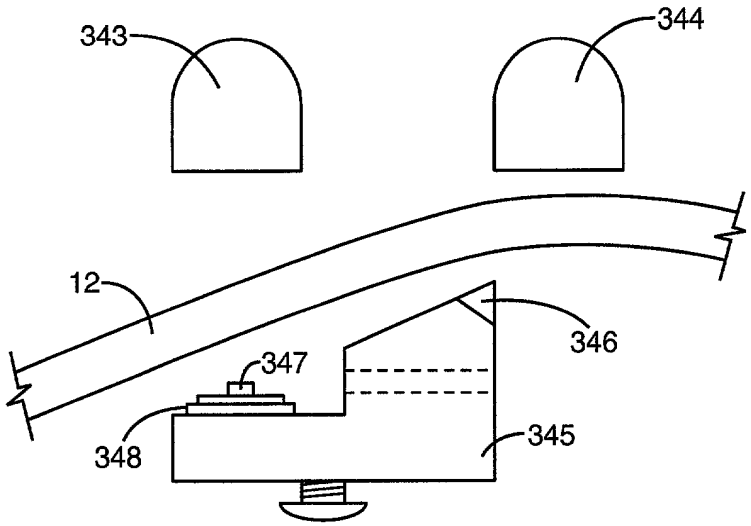

FIG. 11A

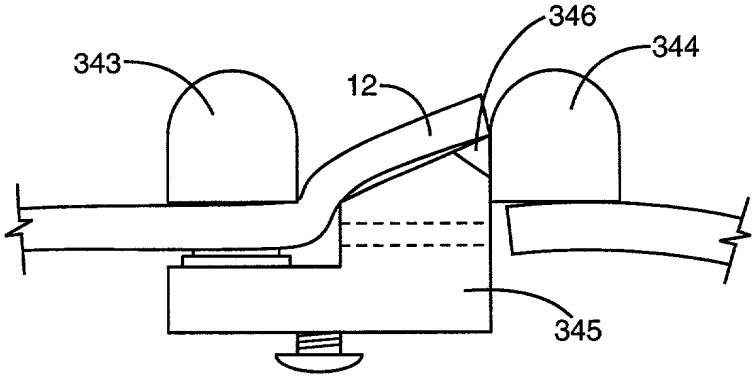

FIG. 11B

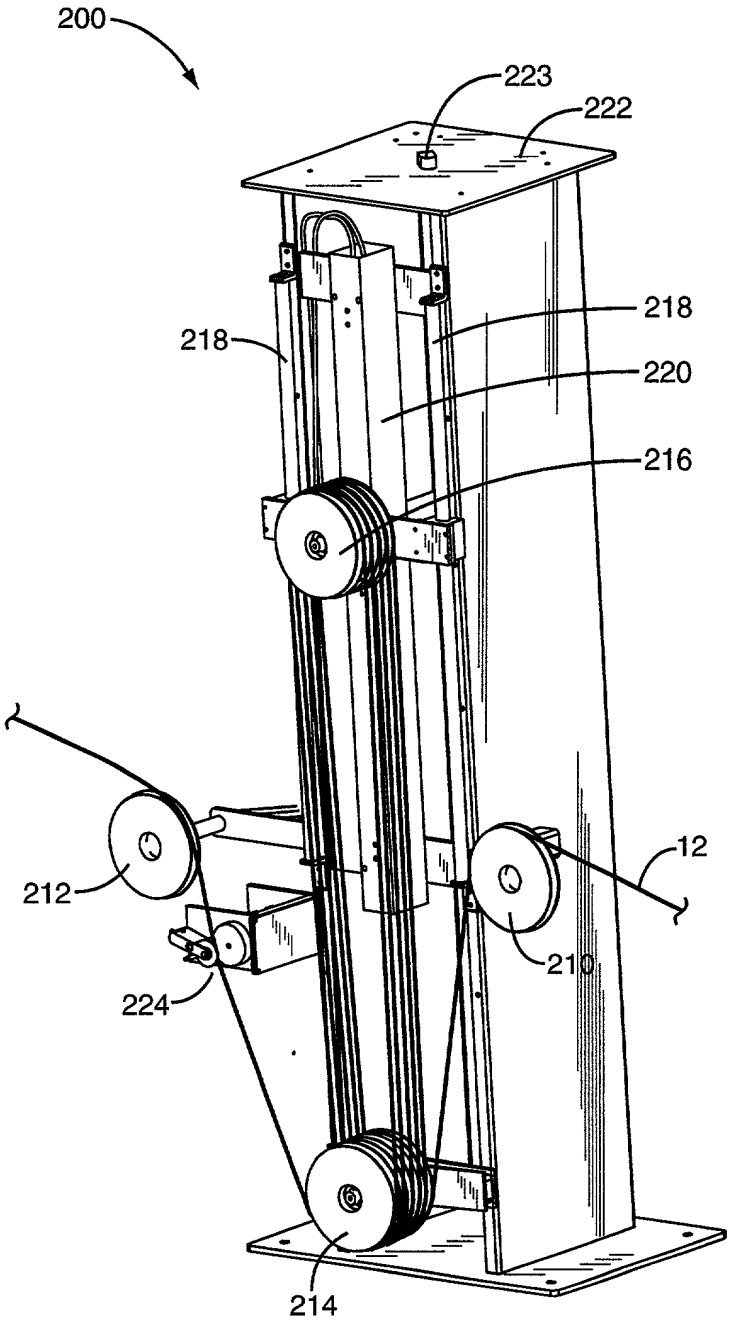

FIG. 12A

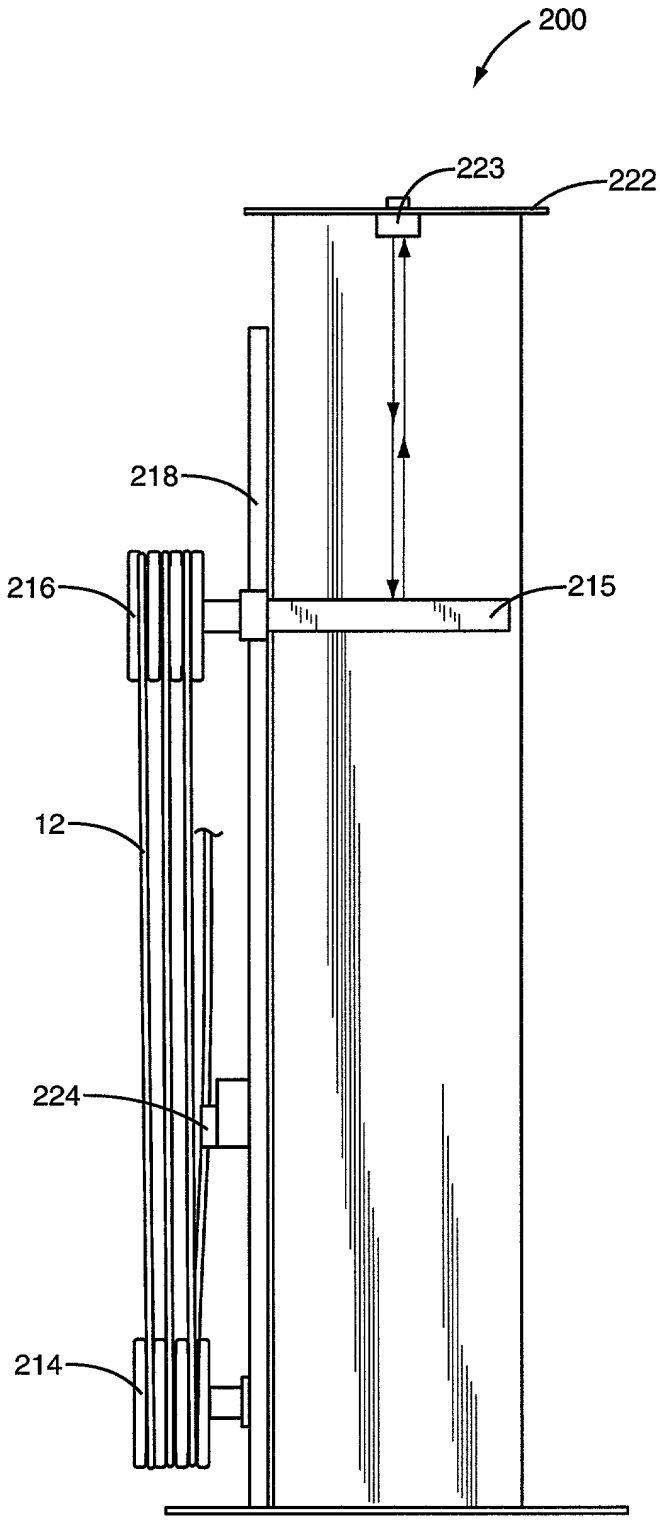

FIG. 12B

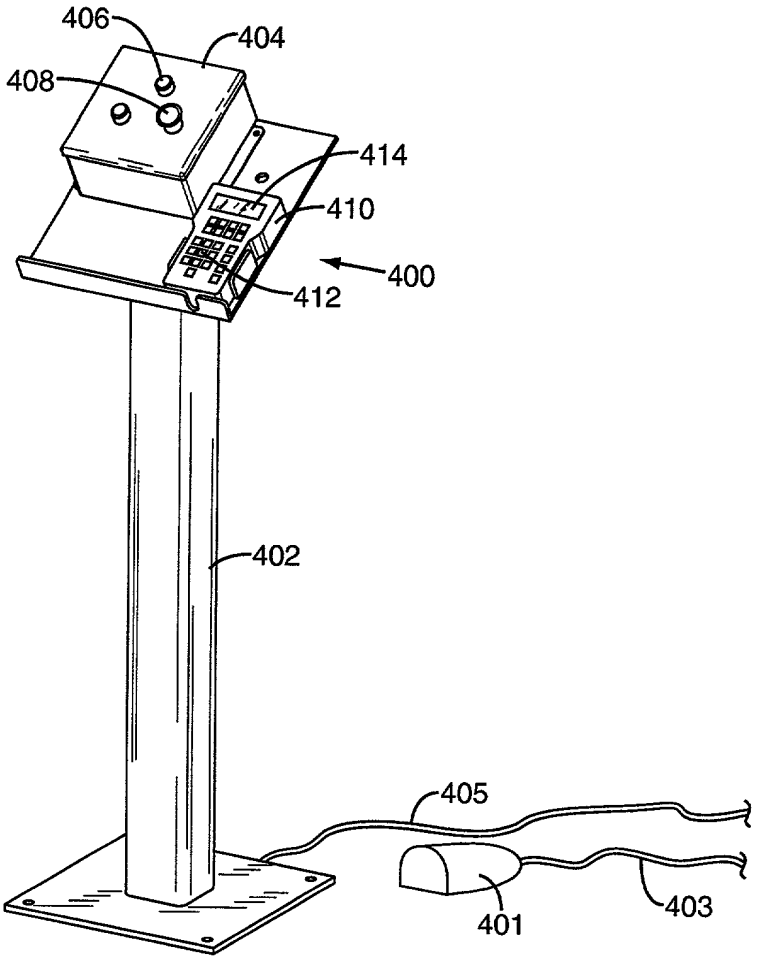

FIG. 13

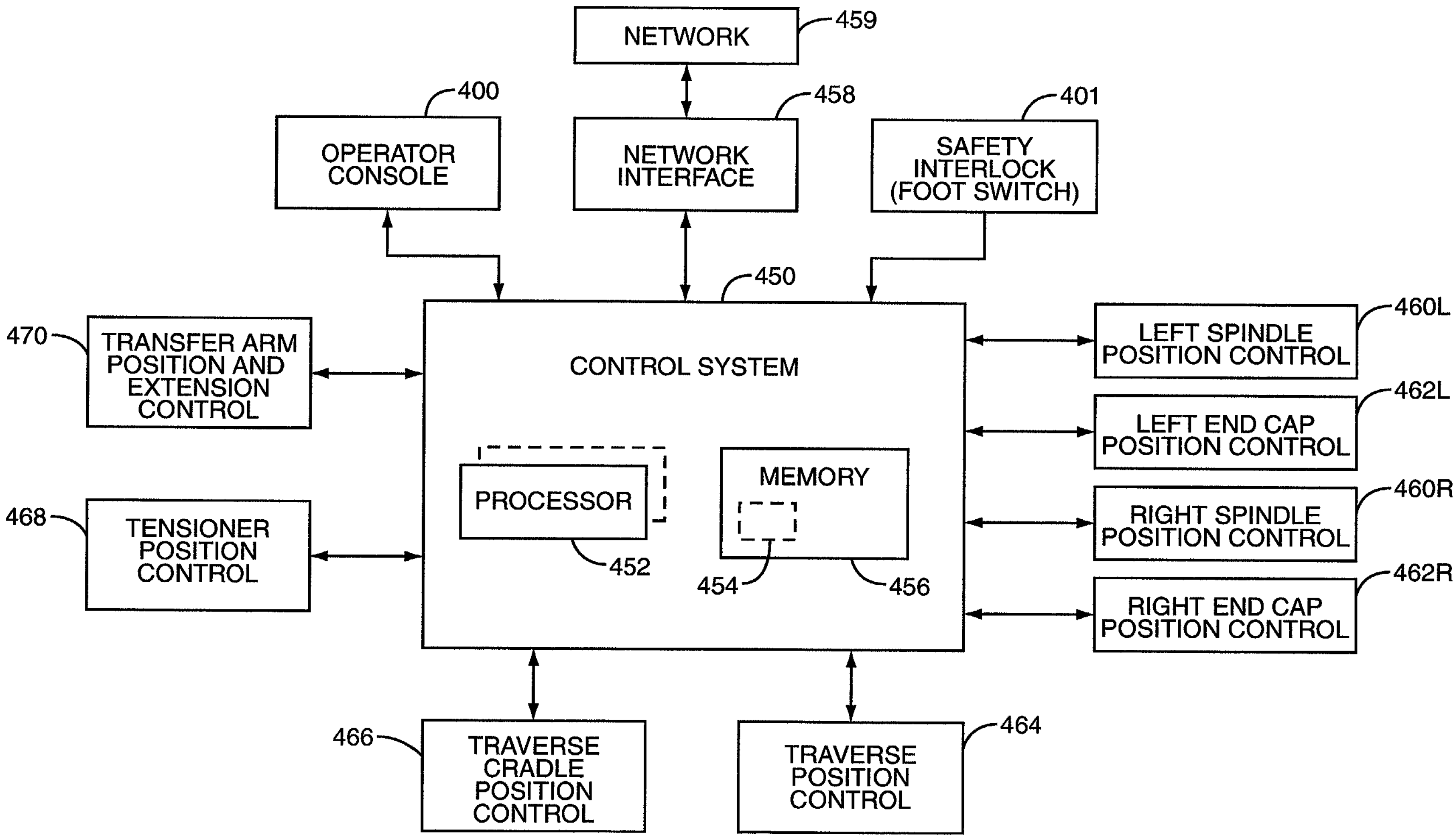
NETWORK
459
OPERATOR CONSOLE
400
NETWORK INTERFACE
458
SAFETY INTERLOCK (FOOT SWITCH)
401
450
CONTROL SYSTEM
PROCESSOR
452
MEMORY
454
456
TRANSFER ARM POSITION AND EXTENSION CONTROL
470
TENSIONER POSITION CONTROL
468
LEFT SPINDLE POSITION CONTROL
460L
LEFT END CAP POSITION CONTROL
462L
RIGHT SPINDLE POSITION CONTROL
460R
RIGHT END CAP POSITION CONTROL
462R
TRAVERSE CRADLE POSITION CONTROL
466
TRAVERSE POSITION CONTROL
464

FIG. 14

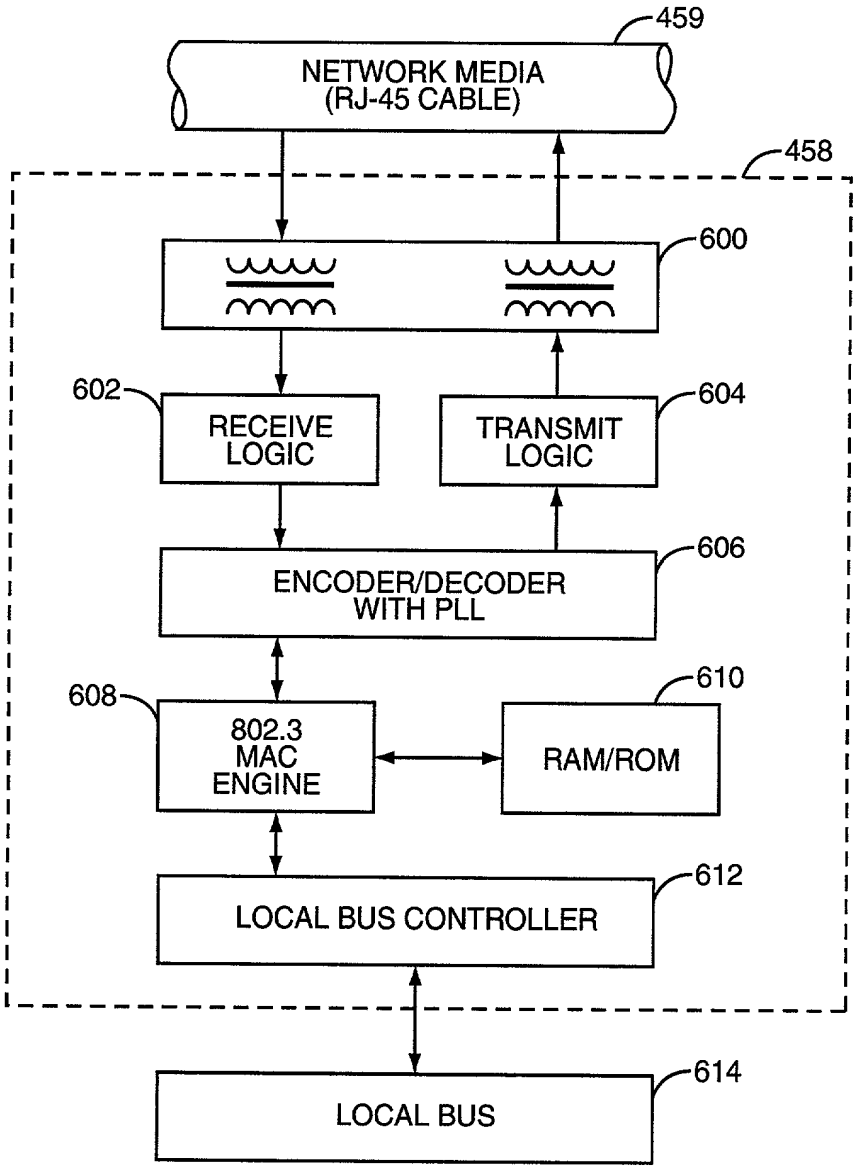

FIG. 15